

Amendments In The Specification

☛ Page 1, please replace the first full paragraph of text with:

-- The subject matter of this disclosure is related to, and makes use of, that which is disclosed in US Patent Application S/N ~~unknown~~ 10/764,928 entitled POSITIVE LOCKING PUSH-ON PRECISION BNC CONNECTOR FOR AN OSCILLOSCOPE PROBE, filed 26 January 2004 by James E. Cannon and assigned to Agilent Technologies of Palo Alto, California. Because of the similarity in subject matter, and for the sake of brevity in the present case, that US Patent Application is hereby expressly incorporated herein by reference, and will be referred to as "POSITIVE LOCKING PUSH-ON PRECISION BNC CONNECTOR". --;

☛ Page 5, please replace the first and second full paragraphs with the three paragraphs:

-- Figure 3 is a more detailed exploded perspective view of a portion of the active probe of Figure 2; and

Figure 4 is an exploded perspective view of the positive locking push-on precision BNC connector mechanism shown in ~~Figure 1~~ Figure 1; and

Figure 5 is an exploded perspective view of an alternate embodiment of the active probe of Figure 1. --;

☛ Page 5, please replace the fourth full paragraph with:

-- Refer now to Figure 2, wherein is shown a perspective exploded view of the active probe 9 of Figure 1. The active probe has a body 16 that carries a strain relief/boot 15. Anchored to the body and supported by the boot is the cable 8. Colored rings ~~1341~~ can be re-arranged and pushed past each other onto slots in the boot for probe identification. At the other end of the active probe is a probe tip assembly. In this particular example the probe is a differential probe and the probe tip assembly comprises a removable and flexible two conductor assembly having an actual pair of pins 19 carried by a pair of insulated wires 18. A pair of connectors 17 (e.g., of type SMP) connect the probe tip assembly to the body 16. --;

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✎ Pages ~~5~~ & ~~6~~, please **replace** the fifth full paragraph beginning on page 5 (and ending on page 6) with:

-- Refer now to Figure 4, wherein is shown an exploded view of the housing 3 of Figure 1 and its contents. In particular, an upper housing half 26 and a lower housing half 25 cooperate to contain a locking self-latching BNC latch assembly 39, a female RF connector assembly 34 (e.g. using APC 3.5) for connection with a cable 8 that has a probe at a distal end. (We have not shown the entire active probe 9 itself, only the boot 15 and the conductors 14 and 10 that attach to it.) The cable 8 connects to connector assembly 34 through its own male connector 33. The cable 8 is further anchored in the housing by the action of a strain relieving boot 31 that is affixed to the cable and that has a narrow neck 30 that is made captive in an aperture (29) in the rear of the housing. Also shown are two sets of flexible colored rubber rings ~~1341~~ and 42 that can be passed by each other to reside upon grooves in the boots. These colored rings serve as reconfigurable probe identifiers, as mentioned in connection with Figure 2. --;

✎ Pages 7 & 8, please **replace** the fourth full paragraph beginning on page 7 (and ending on page 8) with:

-- Now note female connector 34 on the back end of the locking self-latching BNC latch assembly 39. In one particular instance it is preferred that it be an APC 3.5 connector, although other connector styles are, or may become, suitable. (For example, the RF connector might not be threaded.) In essence, the female connector 34 makes the locking self-latching BNC latch assembly 39 function as a cross-series adapter. --; and

✎ Page 8, please **replace** the second full paragraph with:

-- Finally, it will be appreciated that it is not absolutely necessary to use as the detachable coaxial connection in the probe itself the particular soldered-to-the-shield connector with soldered center conductor that is shown and described in the incorporated '989 Application. It would also be possible to use another threaded connector, such as APC 3.5, or if sufficient additional strain relief is provided, even a conventional push-on RF connector, such as SMP, SMB or SMC. Refer to Figure 5, and note 43 and 44. It might be desirable for the auxiliary conductors at the probe to remain soldered if space is at a premium (which seems likely). By the same token, the RF connector assembly 34 of the

positive locking push-on precision male BNC connector assembly 3 (pod housing) could also be a non-threaded RF connector. --.

There Are NO Amendments In The Claims

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